Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity		Total Amount in Rs
	0-14		1	14	1.80	0.15	3.78		
	Cross Road No-14								
	0-25		1	25	2.50	0.15	9.38		
	Cross Road No-15								
	0-74		1	74	6.20	0.15	68.82		
	Cross Road No-16								
	0-33		1	33	7.10	0.15	35.15		
	Cross Road No-17								
	0-12		1	12	5.30	0.15	9.54		
	Cross Road No-18								
	0-93		1	93	5.81	0.15	81.05		
	Cross Road No-19								
	0-9		1	9	1.00	0.15	1.35		
	Cross Road No-20								
	0-14		1	14	2.50	0.15	5.25		
	Cross Road No-21								
	0-30		1	30	1.50	0.15	6.75		
	Cross Road No-22								
	0-23		1	23	2.00	0.15	6.90		
	Cross Road No-23								
	0-18		1	18	1.50	0.15	4.05		
	Cross Road No-24								
	0-62		1	62	1.20	0.15	11.16		
	Cross Road No-25								
	0-19		1	19	1.10	0.15	3.14		
							607.19	**5957.28**	**3617200.84**
18	providing vaccum dewatering concrete as per direction of engineer in charge of thework (page no.XXXXIX, SI No.82) .								
		Sqm							
	for new road construction								
	Cross Road No-1								
	0-180		1	180	6.75		1215.00		
	Cross Road No-2								
	0-24		1	24	1.00		24.00		
	Cross Road No-3								
	0-23		1	23	1.50		34.50		
	Cross Road No-4								
	0-19		1	19	1.00		19.00		
	Cross Road No-5								
	0-60		1	60	2.00		120.00		
	Cross Road No-6								
	0-145		1	145	3.80		551.00		
	Cross Road No-7								
	0-46		1	46	5.60		257.60		
	Cross Road No-8								
	0-20		1	20	1.00		20.00		
	Cross Road No-9								
	0-24		1	24	3.50		84.00		
	Cross Road No-10								
	0-15		1	15	1.50		22.50		

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Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity		Total Amount in Rs
	Cross Road No-11								
	0-17		1	17	2.30		39.10		
	Cross Road No-12								
	0-16		1	16	1.20		19.20		
	Cross Road No-13								
	0-14		1	14	1.80		25.20		
	Cross Road No-14								
	0-25		1	25	2.50		62.50		
	Cross Road No-15								
	0-74		1	74	6.20		458.80		
	Cross Road No-16								
	0-33		1	33	7.10		234.30		
	Cross Road No-17								
	0-12		1	12	5.30		63.60		
	Cross Road No-18								
	0-93		1	93	5.81		540.33		
	Cross Road No-19								
	0-9		1	9	1.00		9.00		
	Cross Road No-20								
	0-14		1	14	2.50		35.00		
	Cross Road No-21								
	0-30		1	30	1.50		45.00		
	Cross Road No-22								
	0-23		1	23	2.00		46.00		
	Cross Road No-23								
	0-18		1	18	1.50		27.00		
	Cross Road No-24								
	0-62		1	62	1.20		74.40		
	Cross Road No-25								
	0-19		1	19	1.10		20.90		
							4047.93	**43.20**	**174870.58**
19	Providing groove cutting for width of 5mm to 10mm and depth 80mm- 100mm including cost of cutting machine, generator & HOM of machinery, including cost of blade,coolant etc., including cleaning of groove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications. (Page No,-175, I.No.22.8 of KPWD S.R 2015-16)								
		m							
	for vertical groove cutting								
	Cross Road No-1								
	0-180		1	180			180.00		
	Cross Road No-6								
	0-145		1	145			145.00		
	Cross Road No-7								
	0-46		1	46			46.00		
	Cross Road No-9								
	0-24		1	24			24.00		
	Cross Road No-15								

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Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity		Total Amount in Rs
	0-74		1	74			74.00		
	Cross Road No-16								
	0-33		1	33			33.00		
	Cross Road No-17								
	0-12		1	12			12.00		
	Cross Road No-18								
	0-93		1	93			93.00		
	for Pavement								
	for Horizontal groove cutting								
	Cross Road No-1								
	0-180		51	6.75			344.25		
	Cross Road No-2								
	0-24		7	1.00			7.00		
	Cross Road No-3								
	0-23		7	1.50			10.50		
	Cross Road No-4								
	0-19		5	1.00			5.00		
	Cross Road No-5								
	0-60		17	2.00			34.00		
	Cross Road No-6								
	0-145		41	3.80			155.80		
	Cross Road No-7								
	0-46		13	5.60			72.80		
	Cross Road No-8								
	0-20		6	1.00			6.00		
	Cross Road No-9								
	0-24		7	3.50			24.50		
	Cross Road No-10								
	0-15		4	1.50			6.00		
	Cross Road No-11								
	0-17		5	2.30			11.50		
	Cross Road No-12								
	0-16		5	1.20			6.00		
	Cross Road No-13								
	0-14		4	1.80			7.20		
	Cross Road No-14								
	0-25		7	2.50			17.50		
	Cross Road No-15								
	0-74		21	6.20			130.20		
	Cross Road No-16								
	0-33		9	7.10			63.90		
	Cross Road No-17								
	0-12		3	5.30			15.90		
	Cross Road No-18								
	0-93		27	5.81			156.87		
	Cross Road No-19								
	0-9		3	1.00			3.00		
	Cross Road No-20								
	0-14		4	2.50			10.00		
	Cross Road No-21								
	0-30		9	1.50			13.50		
	Cross Road No-22								

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Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity		Total Amount in Rs
	0-23		7	2.00			14.00		
	Cross Road No-23								
	0-18		5	1.50			7.50		
	Cross Road No-24								
	0-62		18	1.20			21.60		
	Cross Road No-25								
	0-19		5	1.10			5.50		
							1757.02	124.20	218221.88
20	KSRRB M800-4. Providing and erecting direction and place identification retro- reflectorised sign as per IRC :67-2012 made of high intensity grade sheeting vide clause 800.1.3, fixed over aluminium sheeting, 2 mm thick with area exceeding 0.9 sqm supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm, 2 Nos. firmly fixed to the ground by means of properly designed foundation with M-15 grade cement concrete45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing complete as per specifications. MORTH Specification No.801Using Type IV sheeting (Page No 180., I.No.24.4.1 of KPWD S.R 2015-16).								
		Sqm							
	For Khatha Nagar								
			2				2.00		
							2.00	7509.24	15018.48
								Sub Total	8499355.00

Certificate:-

1. That the workspot inspected by me and found work is necessary.
2. That the area comes with in the Bruhat Bangalore Mahanagara Palike Limits.
3. That the rates are adopted based on the PWD SR of 2015-16.
4. That the provisions made in the estimate are necessary and quite essential.

Consultant

M/s. Mecadez Core Technologies Private Limited

Assistant Engineer
Project Division
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BRUHAT BANAGLORE MAHANAGARA PALIKE

Project Division

Rajajrajeshwari Nagara

DETAILED ESTIMATE

PART-B FOR OUTDOOR GYM WORKS

Name of Work: Improvements to road, drain and other works in Khatha Nagar in Ward no 16.

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity		Total Amount in Rs
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (Page No141., I.No.19.1 of KPWD S.R 2015-16).								
		Cum							
	Earthwork for leveling and lowering of ground								
	10mx10m		1	10	10.00	0.20	20.00		
	Earthwork for foundation of Outdoor Gym Equipments								
	0.6mx0.6mx0.9m		9	0.6	0.60	0.90	2.92		
	Earthwork for flooring for Outdoor Gym								
	10mx10m		1	10	10.00	0.18	17.50		
							40.42	**187.01**	**7558.94**
2	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregtes @ 0.56cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted,in foundation,plinth and cills including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 (Page No 13., I.No.4.7 of KPWD S.R 2015-16).								
		Cum							
	bed concrete for flooring for Outdoor Gym								
	10mx10m		1	10	10.00	0.15	15.00		
							15.00	**5491.80**	**82377.00**

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Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity		Total Amount in Rs
3	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., including smooth finish in CM 1:3, with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges) Ready mixed Cement concrete for Beams, Columns, Staircase and Roof with M-20 (Page No 18., I.No.4.49.1 of KPWD S.R 2015-16).								
		Cum							
	Earthwork for foundation of Outdoor Gym Equipments								
	0.6mx0.6mx0.9m		9	0.6	0.60	0.90	2.92		
							2.92	**6332.04**	**18489.56**
4	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification. (Page No 109, I.No.14.62 of KPWD S.R 2015-16).								
		Sqm							
	for flooring for Outdoor Gym								
	10mx10m		1	10	10		100.00		
							100.00	**1137.24**	**113724.00**
5	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork,curing,including cost of all materials, labour, hire charges of machinery, loading,unloading, lead and lift, transportation etc., complete. (Page No 25., I.No.5.30 of KPWD S.R 2015-16).								
		Nos							
	around the Out-door-gym								
	(10x4)		89				89.00		
							89.00	**320.76**	**28547.64**
6	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8(Page No 179, I.No.24.1 of KPWD S.R 2015-16).								
		Sqm							
	around the Out-door-gym								
	(10x4)	4 sides	4	10.00		0.35	14.00		

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Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity		Total Amount in Rs
							14.00	**61.56**	861.84
7	SUPPLYING AND FIXING OF LEG PRESS DOUBLE OF SAFE AREA : 2.8MTR X 1.5 MTR, CENTRE PIPE : 100 NB GI B-CLASS PIPE, SEAT FRAME : 32 NB GI B-CLASS Pipe, BACK REST : LLDP Plastic, SEAT REST : LLDP Plastic, FOOT REST : LLDP Plastic, PIPE CAP : Nylon 66 injection moulded, BEARING HOUSING AND PIN : Seamless Pipe & Round Bar, BEARINGS : PERMANENT SEALED OF REPUTED MAKE (FAG/SKF), STOPER : PU ROD, NUT BOLTS CAP : Nylon 66 injection moulded, NUT BOLTS : HIGH TENSILE STEEL, GALVANISED NUT BOLTS, POWDER COAT : DONE BY PURE POLYURETANE POWDER WITH 70 – 80 MICRON THICKNESS AS PER ENGINEER IN CHARGE OF THE WORK.								
		Nos							
	Gym Equipmen for Out-door								
			1				1.00		
							1.00	**90000.00**	**90000.00**
8	SUPPLYING AND FIXING OF FUN WALKER DOUBLE OF SAFE AEA : 3 MTR X 2 MTR, MAIN FRAME : 100 NB GI B-class Pipe, LEG FRAME : 32 NB GI B- CLASS Pipe, HANDLE FRAME : 25 NB GI B-CLASS Pipe, FOOT REST : LLDP Plastic, PIPE CAP : Nylon 66 injection moulded, BEARING CAP : Nylon 66 injection moulded, BEARING HOUSING AND PIN : Seamless Pipe & Round Bar, NUT BOLT CAP : Nylon 66 injection moulded, BEARING : PERMENANT SEALED OF REPUTED MAKE (FAG/SKF), NUT BPLTS : HIGH TENSILE STEEL, GALVANISED NUT BOLTS, POWDER COAT : DONE BY PURE POLYURETANE POWDER WITH 70 – 80 MICRON THICKNESS AS PER ENGINEER INCHARGE OF THE WORK.								
		Nos							
	Gym Equipmen for Out-door								
			1				1.00		
							1.00	**150000.00**	**150000.00**

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Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity		Total Amount in Rs
9	SUPPLYING AND FIXING OF PENDULUM DOUBLE OF SAFE AREA : 2.5 MTR X 1 MTR, MAIN FRAME : 100 NB GI B- class Pipe, LEG FRAME : 40 NB GI B- CLASS Pipe, HANDLE FRAME : 25 NB GI B-CLASS Pipe, SEAT : LLDP Plastic, PIPE CAP : Nylon 66 injection moulded, BEARING CAP : Nylon 66 injection moulded, BEARING HOUSING AND PIN : Seamless Pipe & Round Bar, NUT BOULTS CAP : Nylon 66 injection moulded, BEARING : PERMANENT SEALED OF REPUTED MAKE (FAG/SKF), NUT BOLTS : HIGH TENSILE STEEL, GALVANISED NUT BOLTS, POWDER COAT : DONE BY PURE POLYURETANE POWDER WITH 70 – 80 MICRON THICKNESS AS PER ENGINEER INCHARGE OF THE WORK.								
		Nos							
	Gym Equipmen for Out-door								
			1				1.00		
							1.00	**90000.00**	**90000.00**
10	SUPPLYING AND FIXING OF CYCLE TWO WAY OF SAFE AREA : 2.5 MTR X 1 MTR, MAIN FRAME : 100 NB GI B-class Pipe, ARM FRAME : 40 NB GI B-class Pipe, HANDLE FRAME : 20 NB GI B-CLASS Pipe, SEAT : LLDP Plastic, PIPE CAP : Nylon 66 injection moulded, BEARING CAP : Nylon 66 injection moulded, BEARING HOUSING AND PIN : Seamless Pipe & Round Bar, NUT BOLTS CAP : Nylon 66 injection moulded, BEARING : PERMANENT SEALED OF REPUTED MAKE (FAG/SKF), NUT BOLTS : HIGH TENSILE STEEL, GALVANISED NUT BOLTS, POWDER COAT : DONE BY PURE POLYURETANE POWDER WITH 70 – 80 MICRON THICKNESS AS PER ENGINEER INCHARGE OF THE WORK.								
		Nos							
	Gym Equipmen for Out-door								
			1				1.00		
							1.00	**105000.00**	**105000.00**

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Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity		Total Amount in Rs
11	SUPPLYING AND FIXING OF TAI CHI SPINEER DOUBLE OF SAFE AREA : 2 MTR. DIA, MAIN FRAME : 100NB GI B-class Pipe, HANDLE FRAME : 32 NB GI B-CLASS Pipe, SPINNING RING : LLDP Plastic, PIPE CAP : Nylon 66 injection moulded, BEARING CAP : Nylon 66 injection moulded, BEARING HOUSING AND PIN : Seamless Pipe & Round Bar, NUT BOLT CAP : Nylon 66 injection moulded, BEARING : PERMANENT SEALED OF REPUTED MAKE (FAG/SKF), NUT BOLTS : HIGH TENSILE STELL, GALVANISED NUT BOLTS, POWDER COAT : DONE BY PURE POLYURETANE POWDER WITH 70 – 80 MICRON THICKNESS AS PER ENGINEER INCHARGE OF THE WORK.								
		Nos							
	Gym Equipmen for Out-door								
			1				1.00		
							1.00	**90000.00**	**90000.00**
12	SUPPLYING AND FIXING OF TWISTER THREE WAY OF SAFE AREA : 2.5 MTR. DIA, MAIN FRAME : 100 NB GI B – class Pipe, ARM FRAME : 32 NB GI B – CLASS Pipe, HANDLE FRAME : 20 NB GI B – CLASS Pipe, TWISTER DISC : LLDP Plastic, PIPE CAP : Nylon 66 injection moulded, BEARING CAP : Nylon 66 injection mouded, BEARING HOUSING AND PIN : Seamless Pipe & Round Bar, NUT BOLTS CAP : Nylon 66 injection moulded, BEARING : PERMANENT SEALED OF REPUTED MAKE (FAG/SKF), NUT BOLTS : HIGH TENSILE STEEL, GALVANISED NUT BOLTS, POWDER COAT : DONE BY PURE POLYURETANE POWDER WITH 70 – 80 MICRON THICKNESS AS PER ENGINEER INCHARGE OF THE WORK.								
		Nos							
	Gym Equipmen for Out-door								
			1				1.00		
							1.00	**90000.00**	**90000.00**

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Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity		Total Amount in Rs
13	SUPPLYING AND FIXING OF CHEST PRESS DOUBLE – OF SAFE AREA : 4 MTR X 2.5 MTR, OF CENTRE PIPE : 100 NB GI B-class Pipe, SEAT FRAME : 32 NB GI B-CLASS Pipe, HNDLE FRAME : 32 NB & 15 NB GI B-CLASS Pipe, Handle cover : TPEE injection moulded, SEAT REST : LLDP Plastic, PIPE CAP : Nylon 66 injection moulded, BEARING HOUSING AND PIN : Seamless Pipe & Round Bar, BEARINGS : PERMANENT SEALED OF REPUTED MAKE (FAG/SKF), NUT BOLTS CAP : Nylon 66 injection moulded, NUT BOLTS : HIGH TENSILE STEEL, GALVANISED NUT BOLTS, POWDER COAT : DONE BY PURE POLYURETANE POWDER WITH 70 – 80 MICRON THICKNESS AS PER ENGINEER INCHARGE OF THE WORK.								
		Nos							
	Gym Equipmen for Out-door								
			1				1.00		
							1.00	**180000.00**	**180000.00**
14	SUPPLYING AND FIXING OF FUN ROVER, SAFE AREA : 2.5 MTR X 1.5 MTR., MAIN FRAME : 80 NB GI B-class Pipe, SEAT FRAME : 80 NB GI B-CLASS Pipe, HANDLE FRAME : 32 NB GI B-CLASS Pipe, SEAT : LLDP Plastic, PIPE CAP : Nylon 66 injection moulded, BEARING CAP : Nylon 66 injection moulded, BEARING HOUSING AND PIN : Seamless Pipe & Round Bar, NUT BOLT CAP : Nylon 66 injection moulded, BEARINGS : PERMANRNT SEALED OF REPUTED MAKE (FAG/SKF), NUT BOLTS : HIGH TENSILE STEEL, GALVANISED NUT BOLTS, POWDER COAT : DONE BY PURE POLYURETANE POWDER WITH 70 – 80 MICRON THICKNESS AS PER ENGINEER INCHARGE OF THE WORK.								
		Nos							
	Gym Equipmen for Out-door								
			1				1.00		
							1.00	**62000.00**	**62000.00**

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Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity		Total Amount in Rs
15	SUPPLYING AND FIXING OF FUN RIDER, SAFE AREA: 2.5 MTR X 1.5 MTR., MAIN FRAME: 80 NB GI B-class Pipe, SEAT FRAME: 80 NB GI B-CLASS Pipe, HANDLE FRAME: 32 NB GI B-CLASS Pipe, SEAT: LLDP Plastic, PIPE CAP: Nylon 66 injection moulded, BEARING CAP: Nylon 66 injection moulded, BEARING HOUSHING AND PIN: Seamless Pipe & Round Bar, NUT BOLTS CAP: Nylon 66 injection moulded, BEARINGS: PERMANENT SEALED OF REPUTED MAKE (FAG/SKF), NUT BOLTS: HIGH TENSILE STEEL, GALVANISED NUT BOLTS, POWDER COAT: DONE BY PURE POLYURETANE POWDER WITH 70 - 80 MICRON THICKNESS AS PER ENGINEER INCHARGE OF THE WORK.								
		Nos							
	Gym Equipmen for Out-door								
			1				1.00		
							1.00	**150000.00**	**150000.00**
								Sub Total	**1258559.00**

Certificate:-

1. That the workspot inspected by me and found work is necessary.
2. That the area comes with in the Bruhat Bangalore Mahanagara Palike Limits.
3. That the rates are adopted based on the PWD SR of 2015-16.
4. That the provisions made in the estimate are necessary and quite essential.

Core Technologies Private Limited MECADEZ

Consultant
M/s. Mecadez Core Technologies Private Limited

Assistant Engineer
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